

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/039756 A1

(51) International Patent Classification⁷: **B01J 20/20**,
20/34

(21) International Application Number:
PCT/EP2004/011387

(22) International Filing Date: 7 October 2004 (07.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03078201.5 10 October 2003 (10.10.2003) EP

(71) Applicant (for all designated States except US): **DSM IP ASSETS B.V.** [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WNUKOWSKI, Piotr** [PL/SE]; Grevgatan 33BV, S-11453 Stockholm (SE). **JANSSON, Robert** [SE/SE]; Sundbyvägen 24, S-63322 Eskilstuna (SE). **JONSSON, Alf, Tomas, Mikael** [SE/SE]; Ringarstigen 17A, S-64591 Strangnäs (SE).

(74) Agents: **VAN HEUVEL, Margaretha et al.**; DSM Intellectual Property, Delft Office (600-0240), P.O. Box 1, NL-2600 MA Delft (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **ACTIVATED CARBON TREATMENT**

(57) Abstract: The present invention relates to a process for purification of a compound using an activated carbon treatment. In the process according to the present invention several filter units containing activated carbon immobilized in a matrix are operating in series and in a counter current mode. After passing a suitable volume of feed, a filter unit from the first series of filter units is disconnected at a particular position number, and an additional filter unit is connected at another particular position number herewith obtaining a next series of filter units where over the passing of a next volume of feed is continued. This process overcomes the problem of loss of yield of the purified compound as occurs during conventional activated carbon treatment.

WO 2005/039756 A1